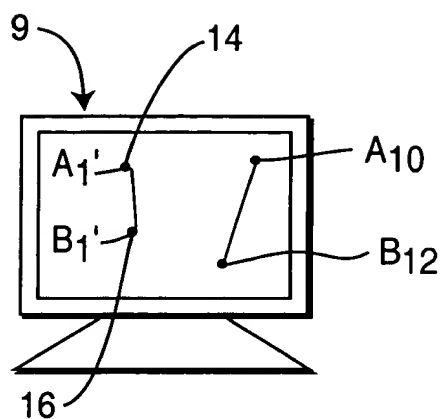




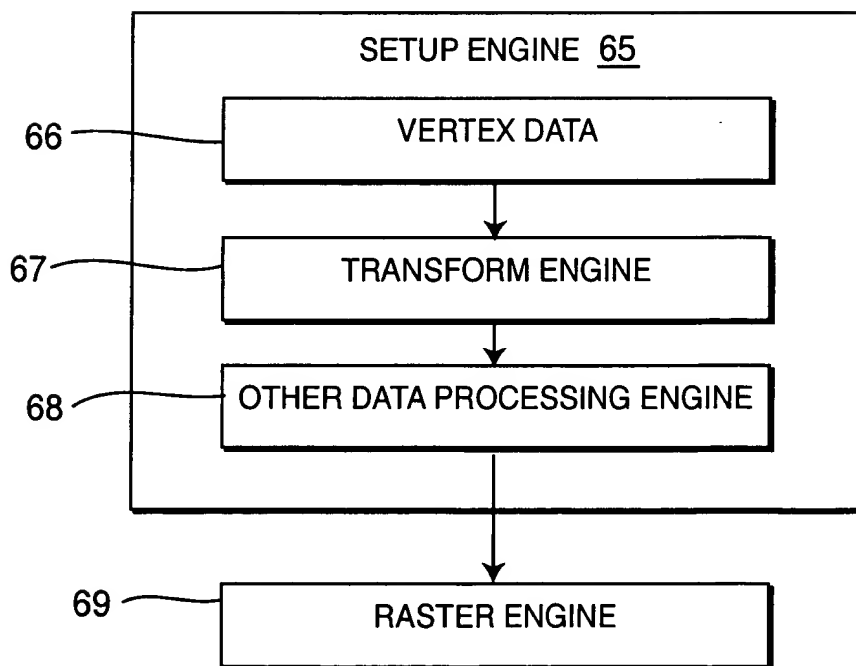
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**FIG. 1A**

20	40
X <sub>0</sub>	$X_0 \cdot a_1 + a_2$
Y <sub>0</sub>	$Y_0 \cdot b_1 + b_2$
Z <sub>0</sub>	$Z_0 \cdot c_1 + c_2$
W <sub>0</sub>	W <sub>0</sub>
S <sub>0</sub>	S <sub>0</sub>
T <sub>0</sub>	T <sub>0</sub>
X <sub>1</sub>	$X_1 \cdot a_3 + a_4$
Y <sub>1</sub>	$Y_1 \cdot b_3 + b_4$
Z <sub>1</sub>	$Z_1 \cdot c_3 + c_4$
W <sub>1</sub>	W <sub>1</sub>
S <sub>1</sub>	S <sub>1</sub>
T <sub>1</sub>	T <sub>1</sub>
C <sub>0</sub>	$C_0 = c_0 + a_5$
C <sub>1</sub>	$C_1 = c_1 + a_6$

**FIG. 1B**



**FIG. 2**



80	POSITION STATE OPERATION 0	$X = X * C_1$
81	POSITION STATE OPERATION 1	$Y = Y * C_2$
82	POSITION STATE OPERATION 2	$Z = Z * C_3$
83	POSITION STATE OPERATION 3	$X = X * W_0$
84	POSITION STATE OPERATION 4	$Y = Y * W_0$
85	POSITION STATE OPERATION 5	$Z = Z * W_0$
86	POSITION STATE OPERATION 6	$X = X + a_1$
87	POSITION STATE OPERATION 7	$Y = Y + a_2$
88	POSITION STATE OPERATION 8	$Z = Z + a_3$
89	POSITION STATE OPERATION 9	WAIT

FIG. 3A

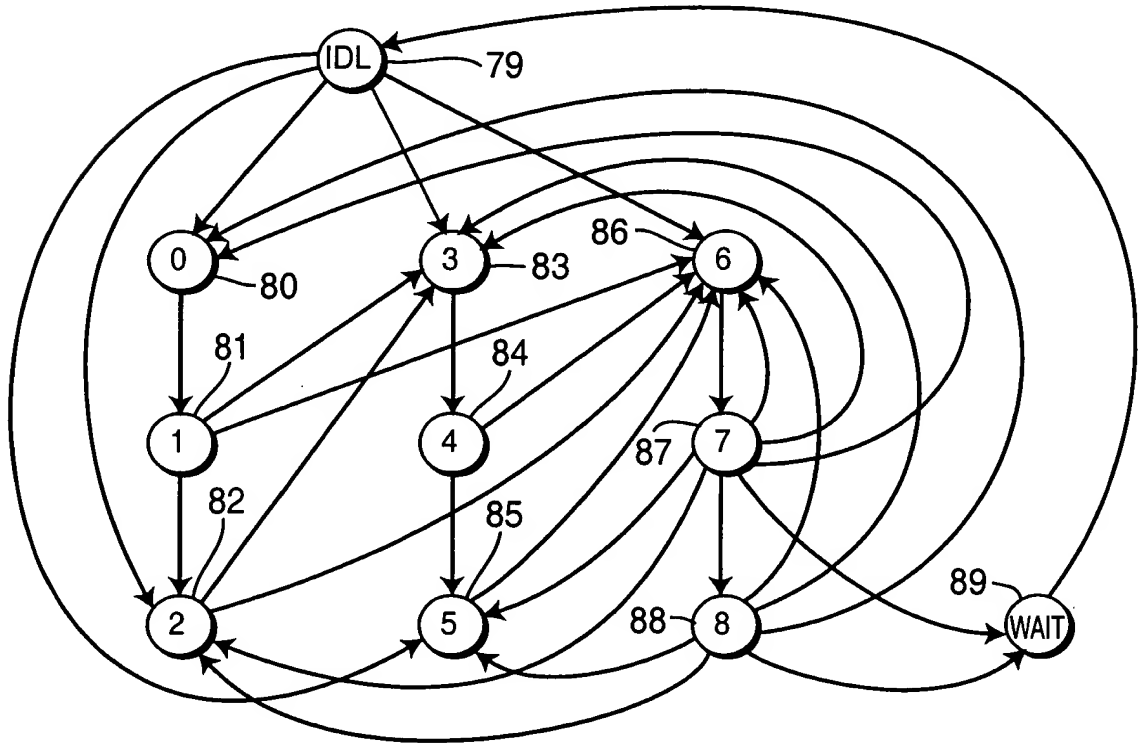
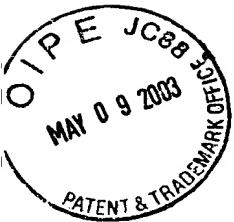


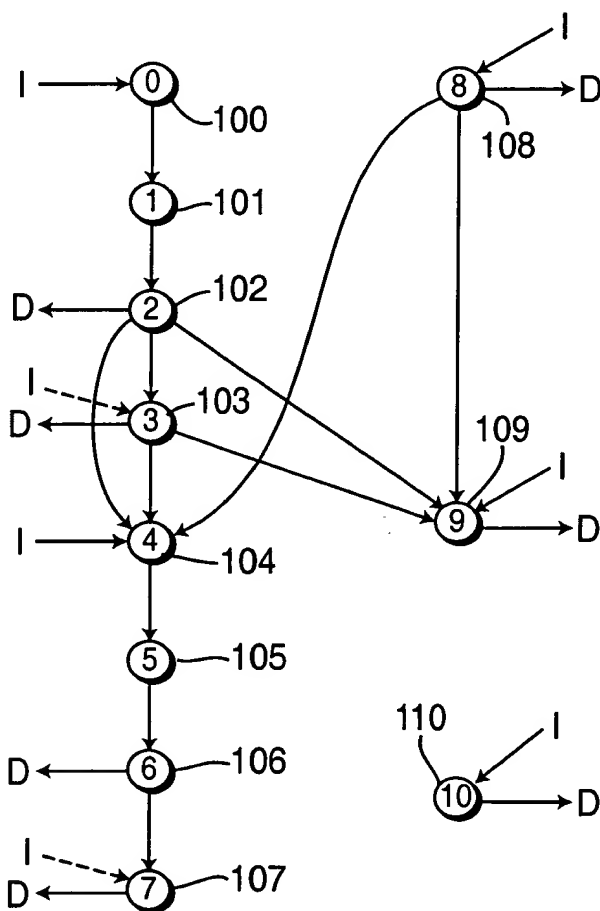
FIG. 3B



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100	COLOR STATE OPERATION 0	$R_d = R_d + C$
101	COLOR STATE OPERATION 1	$G_d = G_d + C$
102	COLOR STATE OPERATION 2	$B_d = B_d + C$
103	COLOR STATE OPERATION 3	$A = A + C$
104	COLOR STATE OPERATION 4	$R_s = R_s + C$
105	COLOR STATE OPERATION 5	$G_s = G_s + C$
106	COLOR STATE OPERATION 6	$B_s = B_s + C$
107	COLOR STATE OPERATION 7	$F = F + C$
108	COLOR STATE OPERATION 8	$R_d = R_d$
109	COLOR STATE OPERATION 9	$R_s = R_s$
110	NOP	

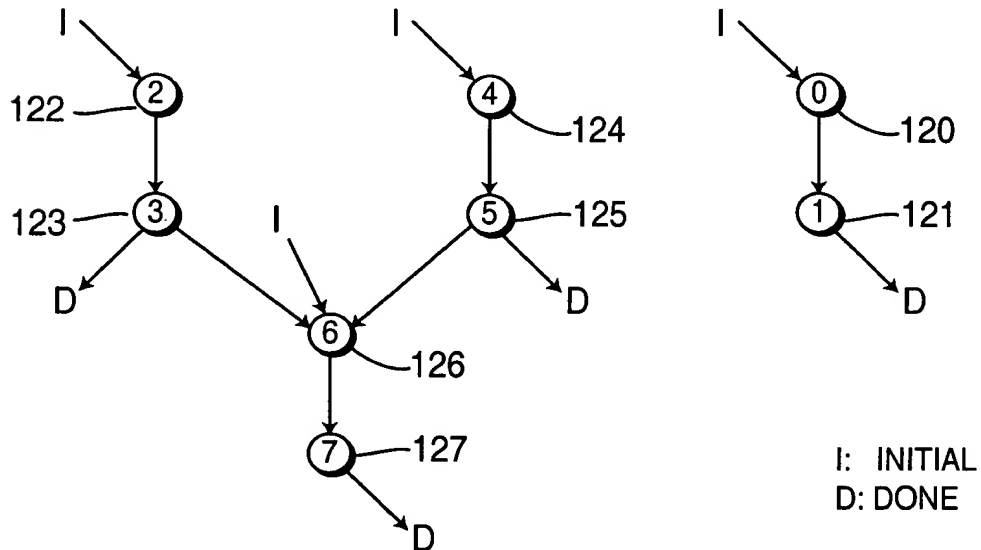
**FIG. 4A**

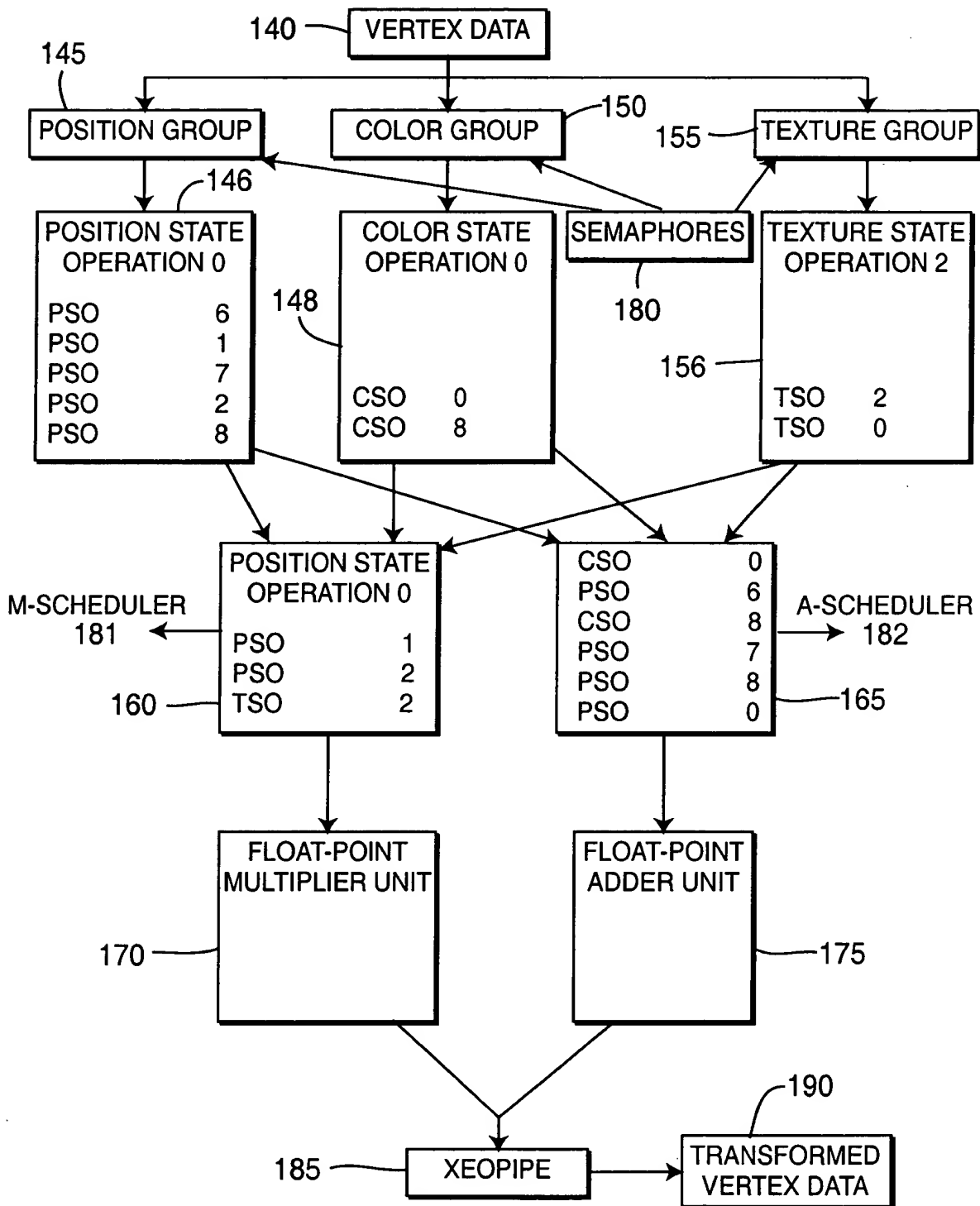


**FIG. 4B**



120	TEXTURE STATE OPERATION 0	$S_i = S_i$
121	TEXTURE STATE OPERATION 1	$T_i = T_i$
122	TEXTURE STATE OPERATION 2	$S_i = S_i * W_0$
123	TEXTURE STATE OPERATION 3	$T_i = T_i * W_0$
124	TEXTURE STATE OPERATION 4	$S_i = S_i * \text{RANGE}$
125	TEXTURE STATE OPERATION 5	$T_i = T_i * \text{RANGE}$
126	TEXTURE STATE OPERATION 6	$S_i = S_i * \text{SIZE}$
127	TEXTURE STATE OPERATION 7	$T_i = T_i * \text{SIZE}$

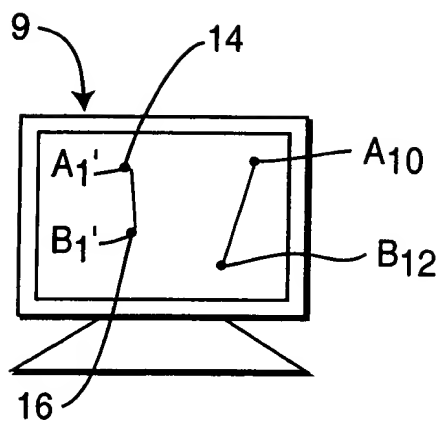
**FIG. 5A****FIG. 5B**



**FIG. 6**



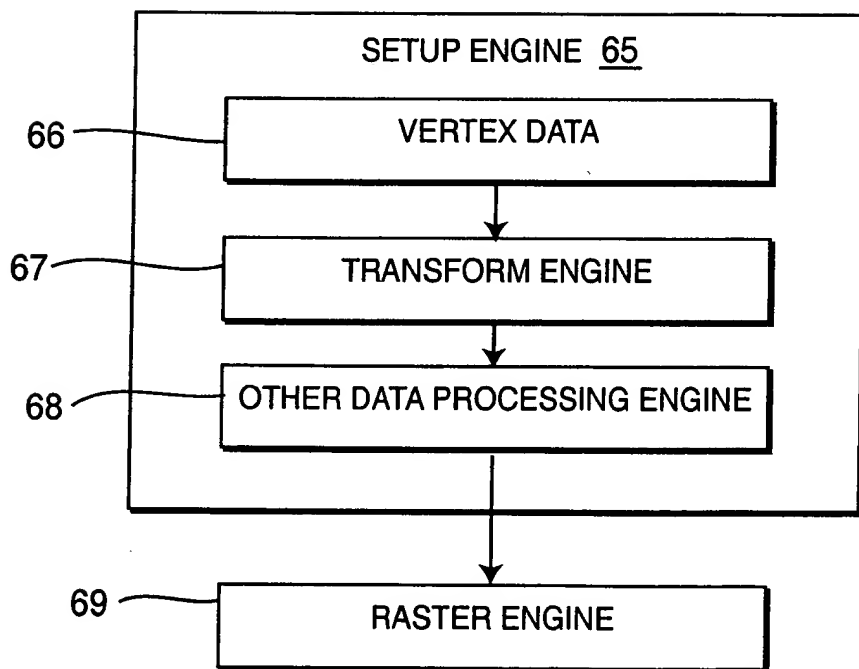
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**FIG. 1A**

20	40
X <sub>0</sub>	$X_0 \cdot a_1 + a_2$
Y <sub>0</sub>	$Y_0 \cdot b_1 + b_2$
Z <sub>0</sub>	$Z_0 \cdot c_1 + c_2$
W <sub>0</sub>	W <sub>0</sub>
S <sub>0</sub>	S <sub>0</sub>
T <sub>0</sub>	T <sub>0</sub>
X <sub>1</sub>	$X_1 \cdot a_3 + a_4$
Y <sub>1</sub>	$Y_1 \cdot b_3 + b_4$
Z <sub>1</sub>	$Z_1 \cdot c_3 + c_4$
W <sub>1</sub>	W <sub>1</sub>
S <sub>1</sub>	S <sub>1</sub>
T <sub>1</sub>	T <sub>1</sub>
C <sub>0</sub>	$C_0 = c_0 + a_5$
C <sub>1</sub>	$C_1 = c_1 + a_6$

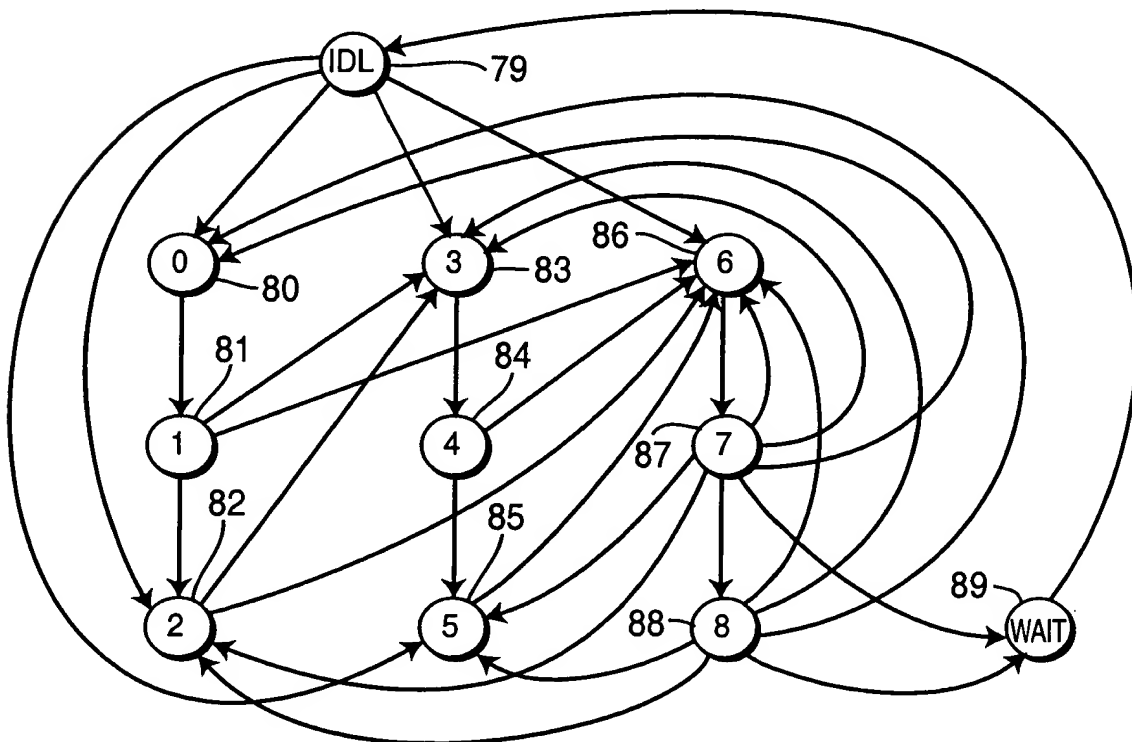
**FIG. 1B**



**FIG. 2**



80	POSITION STATE OPERATION 0	$X = X * C_1$
81	POSITION STATE OPERATION 1	$Y = Y * C_2$
82	POSITION STATE OPERATION 2	$Z = Z * C_3$
83	POSITION STATE OPERATION 3	$X = X * W_0$
84	POSITION STATE OPERATION 4	$Y = Y * W_0$
85	POSITION STATE OPERATION 5	$Z = Z * W_0$
86	POSITION STATE OPERATION 6	$X = X + a_1$
87	POSITION STATE OPERATION 7	$Y = Y + a_2$
88	POSITION STATE OPERATION 8	$Z = Z + a_3$
89	POSITION STATE OPERATION 9	WAIT

**FIG. 3A****FIG. 3B**



100	COLOR STATE OPERATION 0	$R_d = R_d + C$
101	COLOR STATE OPERATION 1	$G_d = G_d + C$
102	COLOR STATE OPERATION 2	$B_d = B_d + C$
103	COLOR STATE OPERATION 3	$A = A + C$
104	COLOR STATE OPERATION 4	$R_s = R_s + C$
105	COLOR STATE OPERATION 5	$G_s = G_s + C$
106	COLOR STATE OPERATION 6	$B_s = B_s + C$
107	COLOR STATE OPERATION 7	$F = F + C$
108	COLOR STATE OPERATION 8	$R_d = R_d$
109	COLOR STATE OPERATION 9	$R_s = R_s$
110	NOP	

FIG. 4A

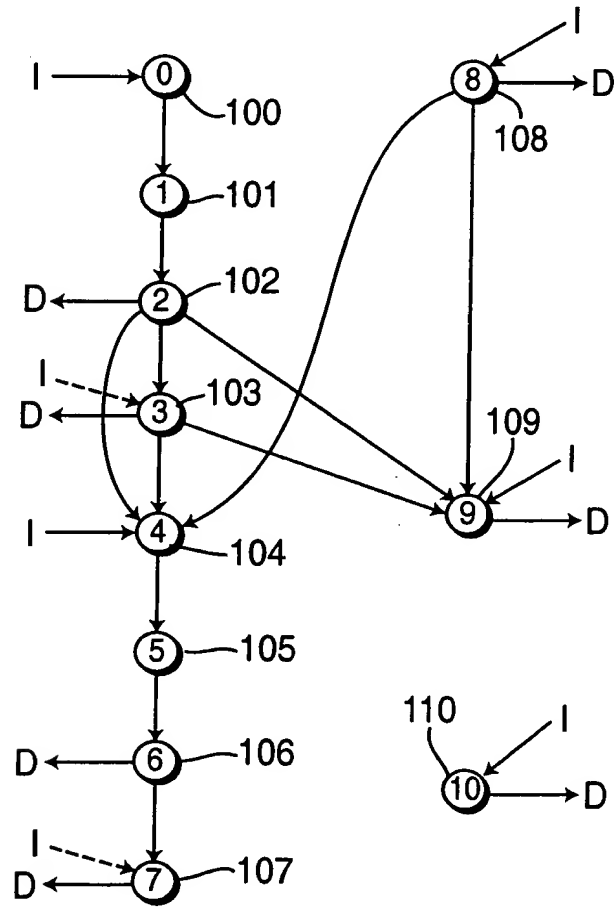
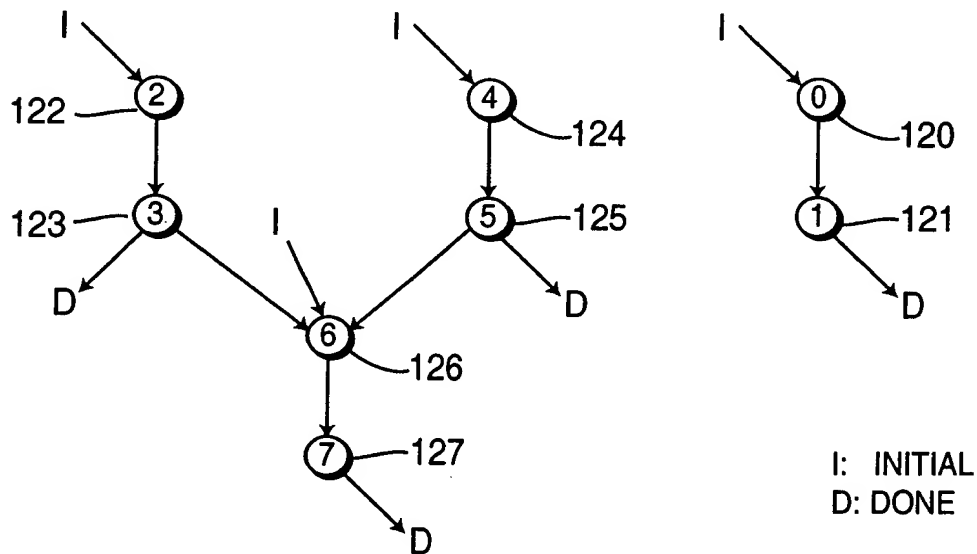


FIG. 4B





120	TEXTURE STATE OPERATION 0	$S_i = S_i$
121	TEXTURE STATE OPERATION 1	$T_i = T_i$
122	TEXTURE STATE OPERATION 2	$S_i = S_i * W_0$
123	TEXTURE STATE OPERATION 3	$T_i = T_i * W_0$
124	TEXTURE STATE OPERATION 4	$S_i = S_i * \text{RANGE}$
125	TEXTURE STATE OPERATION 5	$T_i = T_i * \text{RANGE}$
126	TEXTURE STATE OPERATION 6	$S_i = S_i * \text{SIZE}$
127	TEXTURE STATE OPERATION 7	$T_i = T_i * \text{SIZE}$

**FIG. 5A****FIG. 5B**

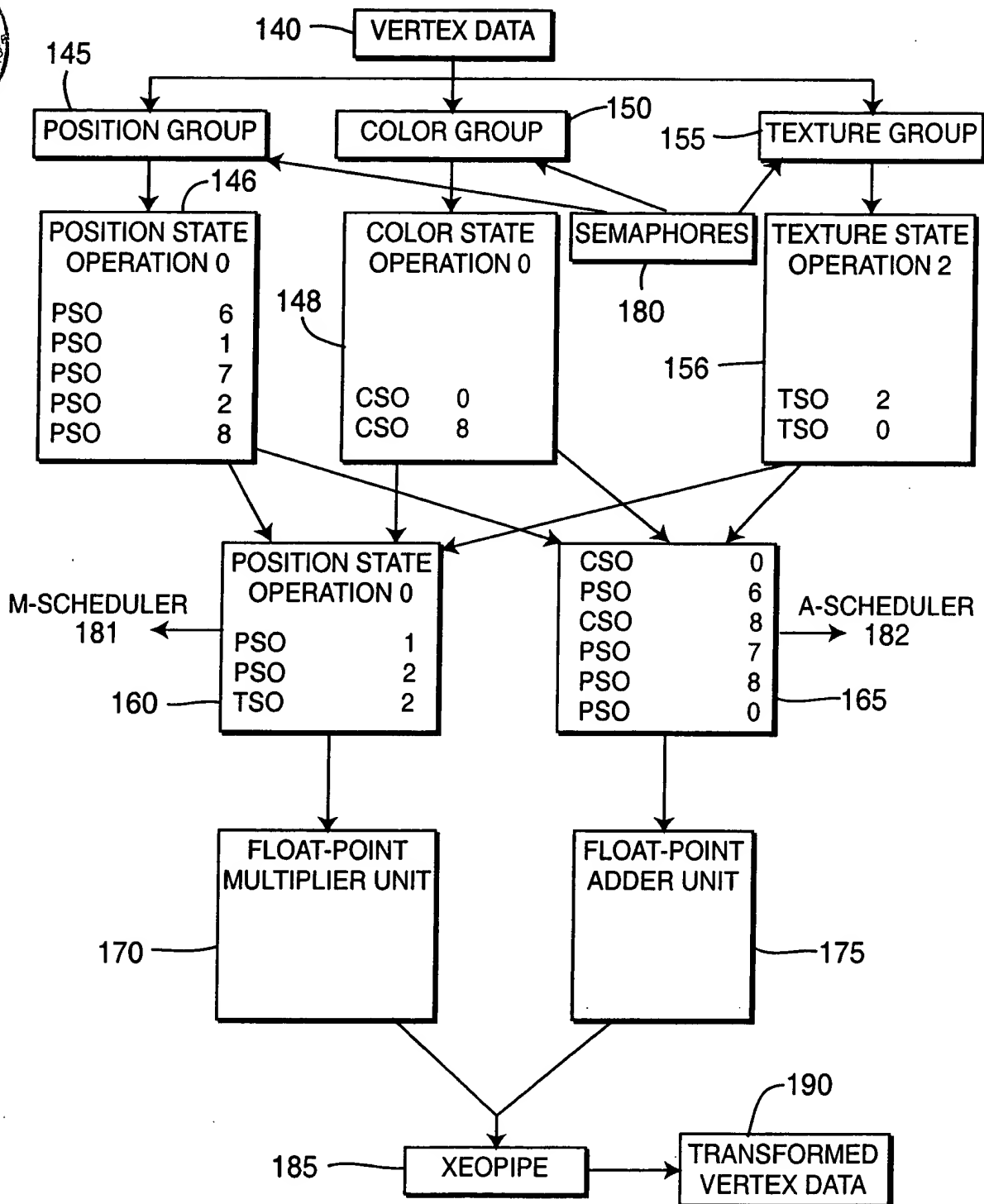
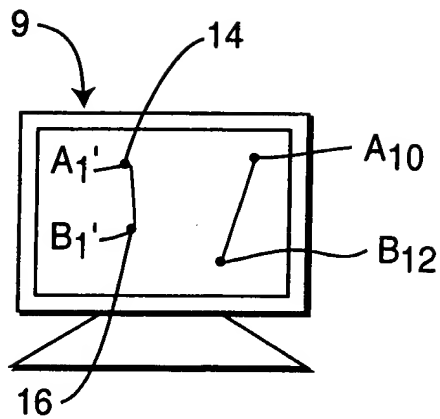


FIG. 6



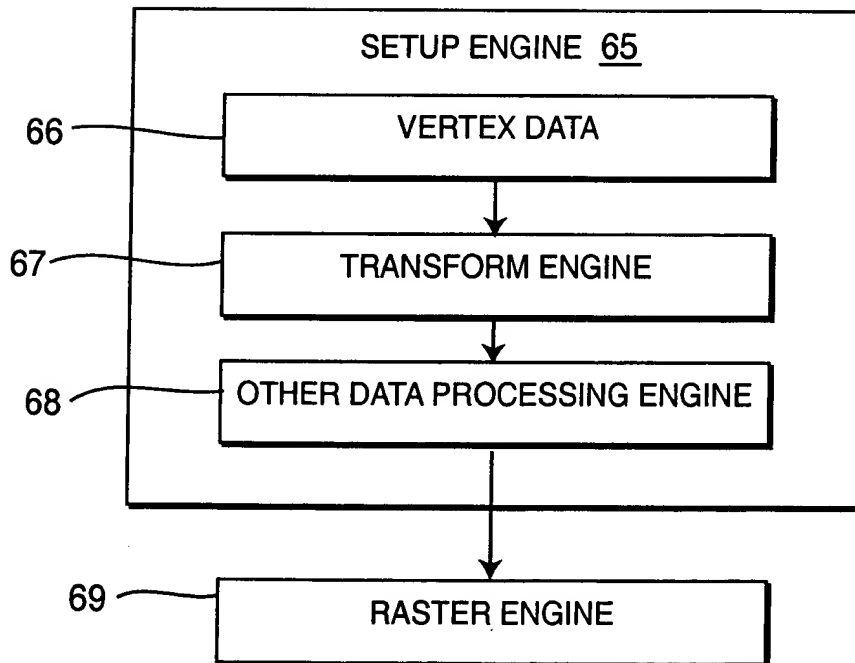
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**FIG. 1A**

20	40
X <sub>0</sub>	$X_0 \cdot a_1 + a_2$
Y <sub>0</sub>	$Y_0 \cdot b_1 + b_2$
Z <sub>0</sub>	$Z_0 \cdot c_1 + c_2$
W <sub>0</sub>	W <sub>0</sub>
S <sub>0</sub>	S <sub>0</sub>
T <sub>0</sub>	T <sub>0</sub>
X <sub>1</sub>	$X_1 \cdot a_3 + a_4$
Y <sub>1</sub>	$Y_1 \cdot b_3 + b_4$
Z <sub>1</sub>	$Z_1 \cdot c_3 + c_4$
W <sub>1</sub>	W <sub>1</sub>
S <sub>1</sub>	S <sub>1</sub>
T <sub>1</sub>	T <sub>1</sub>
C <sub>0</sub>	$C_0 = c_0 + a_5$
C <sub>1</sub>	$C_1 = c_1 + a_6$

**FIG. 1B**

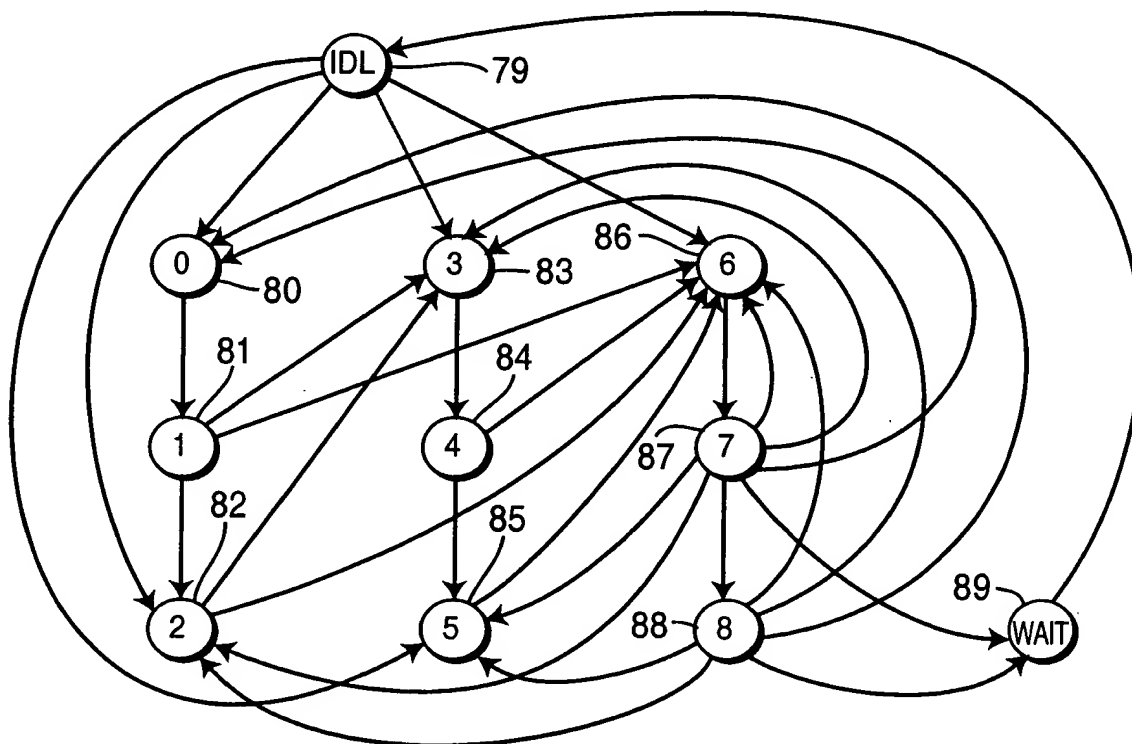


**FIG. 2**



80	POSITION STATE OPERATION 0	$X = X * C_1$
81	POSITION STATE OPERATION 1	$Y = Y * C_2$
82	POSITION STATE OPERATION 2	$Z = Z * C_3$
83	POSITION STATE OPERATION 3	$X = X * W_0$
84	POSITION STATE OPERATION 4	$Y = Y * W_0$
85	POSITION STATE OPERATION 5	$Z = Z * W_0$
86	POSITION STATE OPERATION 6	$X = X + a_1$
87	POSITION STATE OPERATION 7	$Y = Y + a_2$
88	POSITION STATE OPERATION 8	$Z = Z + a_3$
89	POSITION STATE OPERATION 9	WAIT

**FIG. 3A**



**FIG. 3B**



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100	COLOR STATE OPERATION 0	$R_d = R_d + C$
101	COLOR STATE OPERATION 1	$G_d = G_d + C$
102	COLOR STATE OPERATION 2	$B_d = B_d + C$
103	COLOR STATE OPERATION 3	$A = A + C$
104	COLOR STATE OPERATION 4	$R_s = R_s + C$
105	COLOR STATE OPERATION 5	$G_s = G_s + C$
106	COLOR STATE OPERATION 6	$B_s = B_s + C$
107	COLOR STATE OPERATION 7	$F = F + C$
108	COLOR STATE OPERATION 8	$R_d = R_d$
109	COLOR STATE OPERATION 9	$R_s = R_s$
110	NOP	

FIG. 4A

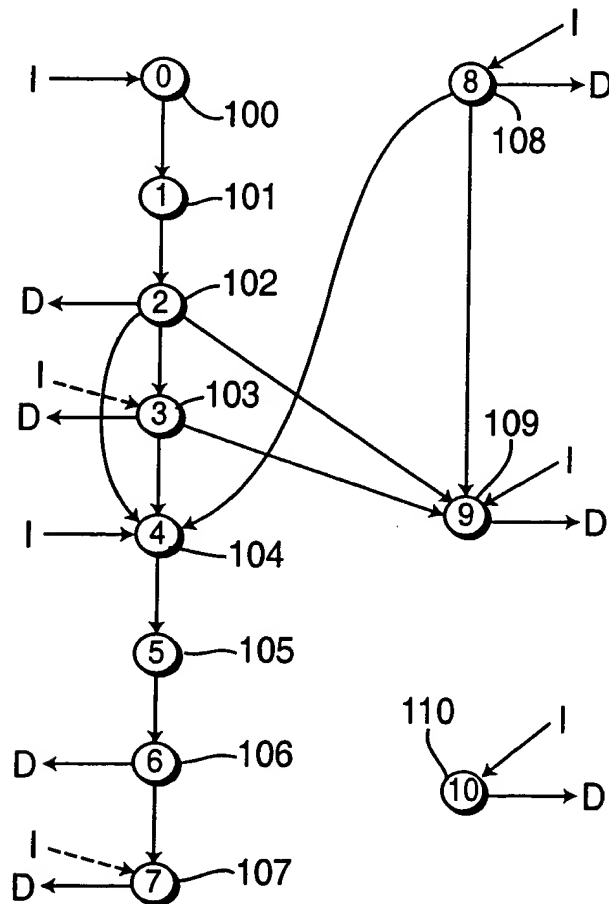
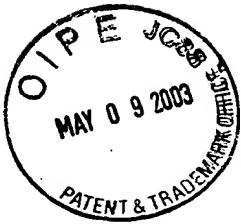
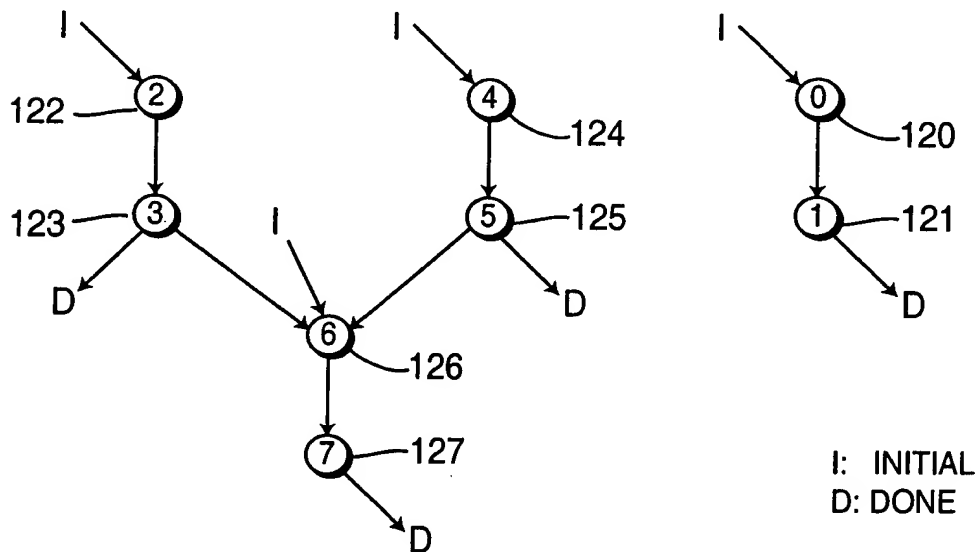


FIG. 4B



120	TEXTURE STATE OPERATION 0	$S_i = S_i$
121	TEXTURE STATE OPERATION 1	$T_i = T_i$
122	TEXTURE STATE OPERATION 2	$S_i = S_i * W_O$
123	TEXTURE STATE OPERATION 3	$T_i = T_i * W_O$
124	TEXTURE STATE OPERATION 4	$S_i = S_i * \text{RANGE}$
125	TEXTURE STATE OPERATION 5	$T_i = T_i * \text{RANGE}$
126	TEXTURE STATE OPERATION 6	$S_i = S_i * \text{SIZE}$
127	TEXTURE STATE OPERATION 7	$T_i = T_i * \text{SIZE}$

**FIG. 5A****FIG. 5B**

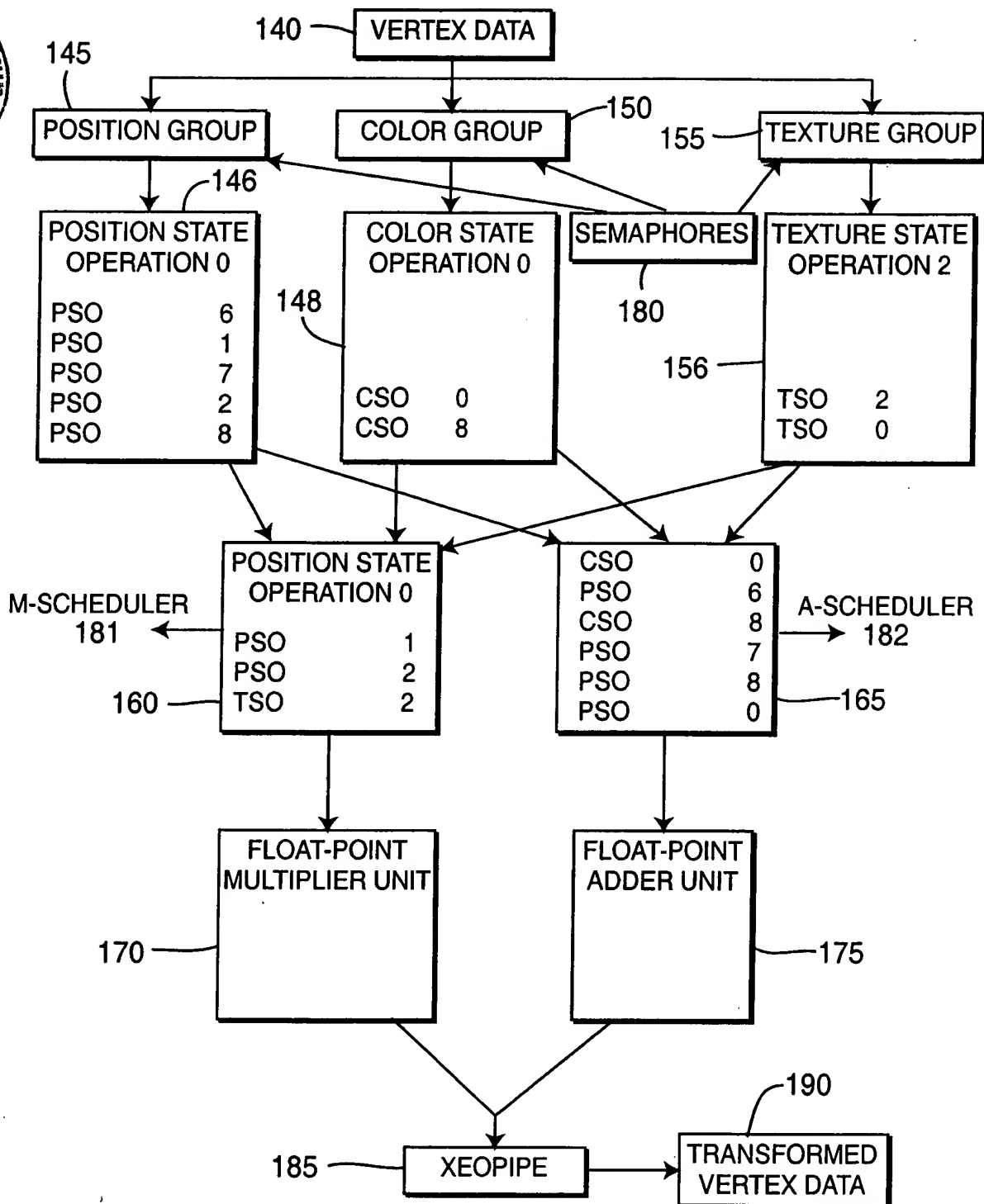


FIG. 6